

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2005/000827

A. CLASSIFICATION OF SUBJECT MATTER  
 IPC 7 A23K1/16 A23K1/00 C12N9/14

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
 IPC 7 C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, BIOSIS, FSTA, CHEM ABS Data, EMBASE

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 98/54980 A (HARZ HANS PETER ; BARENDESE RUDOLF CAROLUS MARIA (NL); GIST BROCADES NV) 10 December 1998 (1998-12-10) cited in the application	1-31
X	see references to phytase on bottom page 13 and process description page 4 and 6-10, animal feed compositions comprising the enzyme granulate the whole document	26
Y	WO 98/28408 A (NOVO NORDISK A/S) 2 July 1998 (1998-07-02)	1-31
X	in particular the compositions comprising the phytase (see claims 10-15)	26
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 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

## \* Special categories of cited documents :

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Date of the actual completion of the International search

19 April 2005

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PCT/EP2005/000827

## C(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2002/034798 A1 (BARENDE RUDOLF CAROLUS MARIA ET AL) 21 March 2002 (2002-03-21) in particular page 4 left column and page 5 left col. second paragraph and page 5 right col. first par.	1-9
Y	MARRS W M: "RHEOLOGY AS AN INDICATOR OF FUNCTIONALITY" WORLD OF INGREDIENTS, C&S PUBLISHERS, ARNHEM, NL, February 1996 (1996-02), pages 38-40, XP009028458 ISSN: 1380-491X the whole document	1-31
Y	WO 03/040398 A (ALAVATTAM SREEDHARA ; BATTELLE MEMORIAL INSTITUTE (US); BRODY RICHARD) 15 May 2003 (2003-05-15) see page 6 line 3-9, pages 9-11, Table 1-6 page 14, claim 1, 3 and 6	1-31
Y	US 6 610 519 B1 (HENRIKSEN LOTTE RUGHOLM ET AL) 26 August 2003 (2003-08-26) See phytase granulates in examples 3-6 and claims 1-6	1-31
Y	EP 0 897 985 A (F.HOFFMANN-LA ROCHE AG; DSM IP ASSETS B.V) 24 February 1999 (1999-02-24) see claim 10 and page 6 (lines 16-28) for the feed composition comprising a consensus phytase protein	1-10
A	EP 0 257 996 A (SUOMEN SOKERI OY) 2 March 1988 (1988-03-02) the whole document	1-10

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International Application No

PCT/EP2005/000827

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9854980	A 10-12-1998	AT 266721 T AU 740970 B2 AU 8435798 A AU 741828 B2 AU 8435898 A BR 9809915 A BR 9809919 A CA 2292953 A1 CA 2292955 A1 CN 1268029 A CN 1263438 A DE 69823820 D1 DE 69823820 T2 DK 990026 T3 WO 9854980 A2 WO 9855599 A2 EP 1457560 A1 EP 0986313 A2 EP 0990026 A2 ES 2221181 T3 GB 2340834 A ,B GB 2341077 A ,B HK 1022718 A1 HK 1022606 A1 HU 0002899 A2 ID 24680 A ID 24116 A JP 2002502254 T JP 2002502255 T NO 995993 A NO 995994 A NZ 501408 A NZ 501409 A PL 337457 A1 PL 337464 A1 PT 990026 T SK 167699 A3 SK 167899 A3 TR 9903010 T2 TR 9903015 T2 TW 409035 B US 2002034798 A1 US 6500426 B1 US 2003049811 A1 US 2005054065 A1 ZA 9804834 A ZA 9804835 A HU 0002767 A2	15-05-2004 15-11-2001 21-12-1998 13-12-2001 21-12-1998 20-03-2001 03-10-2000 10-12-1998 10-12-1998 27-09-2000 16-08-2000 17-06-2004 07-10-2004 20-09-2004 10-12-1998 10-12-1998 15-09-2004 22-03-2000 05-04-2000 16-12-2004 01-03-2000 08-03-2000 22-02-2002 22-02-2002 29-01-2001 27-07-2000 06-07-2000 22-01-2002 22-01-2002 06-12-1999 06-12-1999 01-02-2002 01-02-2002 14-08-2000 14-08-2000 31-08-2004 12-09-2000 12-09-2000 21-03-2000 22-05-2000 21-10-2000 21-03-2002 31-12-2002 13-03-2003 10-03-2005 04-01-1999 04-01-1999 28-12-2000
WO 9828408	A 02-07-1998	AT 195140 T AU 5309698 A AU 7873498 A CA 2265471 A1 CN 1240477 A CN 1234070 A DE 69702720 D1 DE 69702720 T2 WO 9828408 A1	15-08-2000 17-07-1998 17-07-1998 02-07-1998 05-01-2000 03-11-1999 07-09-2000 05-04-2001 02-07-1998

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2005/000827

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
WO 9828408	A	WO	9828409 A1	02-07-1998
		EP	0958353 A1	24-11-1999
		EP	0948606 A1	13-10-1999
		ES	2150795 T3	01-12-2000
		JP	3504672 B2	08-03-2004
		JP	2000512856 T	03-10-2000
		JP	2001506503 T	22-05-2001
		PT	948606 T	31-01-2001
		US	6054306 A	25-04-2000
		US	6569659 B1	27-05-2003
		US	6060298 A	09-05-2000
		US	6039942 A	21-03-2000
		US	2003064497 A1	03-04-2003
US 2002034798	A1 21-03-2002	US	2005054065 A1	10-03-2005
		AT	266721 T	15-05-2004
		AU	740970 B2	15-11-2001
		AU	8435798 A	21-12-1998
		AU	741828 B2	13-12-2001
		AU	8435898 A	21-12-1998
		BR	9809915 A	20-03-2001
		BR	9809919 A	03-10-2000
		CA	2292953 A1	10-12-1998
		CA	2292955 A1	10-12-1998
		CN	1268029 A	27-09-2000
		CN	1263438 A	16-08-2000
		DE	69823820 D1	17-06-2004
		DE	69823820 T2	07-10-2004
		DK	990026 T3	20-09-2004
		WO	9854980 A2	10-12-1998
		WO	9855599 A2	10-12-1998
		EP	1457560 A1	15-09-2004
		EP	0986313 A2	22-03-2000
		EP	0990026 A2	05-04-2000
		ES	2221181 T3	16-12-2004
		GB	2340834 A ,B	01-03-2000
		GB	2341077 A ,B	08-03-2000
		HK	1022718 A1	22-02-2002
		HK	1022606 A1	22-02-2002
		HU	0002899 A2	29-01-2001
		ID	24680 A	27-07-2000
		ID	24116 A	06-07-2000
		JP	2002502254 T	22-01-2002
		JP	2002502255 T	22-01-2002
		NO	995993 A	06-12-1999
		NO	995994 A	06-12-1999
		NZ	501408 A	01-02-2002
		NZ	501409 A	01-02-2002
		PL	337457 A1	14-08-2000
		PL	337464 A1	14-08-2000
		PT	990026 T	31-08-2004
		SK	167699 A3	12-09-2000
		SK	167899 A3	12-09-2000
		TR	9903010 T2	21-03-2000
		TR	9903015 T2	22-05-2000
		TW	409035 B	21-10-2000
		US	6500426 B1	31-12-2002
		US	2003049811 A1	13-03-2003

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International Application No

PCT/EP2005/000827

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
US 2002034798	A1	ZA	9804834 A	04-01-1999
		ZA	9804835 A	04-01-1999
		HU	0002767 A2	28-12-2000
WO 03040398	A 15-05-2003	US	2003103933 A1	05-06-2003
		CA	2465248 A1	15-05-2003
		WO	03040398 A2	15-05-2003
		US	2004247684 A1	09-12-2004
US 6610519	B1 26-08-2003	US	2004106182 A1	03-06-2004
		AT	238415 T	15-05-2003
		AU	761363 B2	05-06-2003
		AU	5850599 A	26-04-2000
		BR	9914217 A	03-07-2001
		CA	2341484 A1	13-04-2000
		CN	1320161 A	31-10-2001
		DE	69907240 D1	28-05-2003
		DE	69907240 T2	27-11-2003
		WO	0020569 A1	13-04-2000
		DK	1117771 T3	16-06-2003
		EP	1117771 A1	25-07-2001
		JP	2002526106 T	20-08-2002
EP 0897985	A 24-02-1999	EP	0897985 A2	24-02-1999
		DK	897985 T3	17-01-2005
		EP	1403377 A1	31-03-2004
		BR	9802576 A	20-03-2001
		CA	2238613 A1	24-01-1999
		CN	1208768 A ,C	24-02-1999
		CN	1526815 A	08-09-2004
		DE	69826944 D1	18-11-2004
		DE	69826944 T2	10-03-2005
		JP	11146791 A	02-06-1999
		NO	983364 A	25-01-1999
		NZ	330940 A	28-02-2000
		TW	577921 B	01-03-2004
		US	6153418 A	28-11-2000
		US	2003190677 A1	09-10-2003
		US	6579975 B1	17-06-2003
EP 0257996	A 02-03-1988	FI	863393 A	23-02-1988
		AT	123208 T	15-06-1995
		CA	1335544 C	16-05-1995
		DE	3751325 D1	06-07-1995
		DE	3751325 T2	19-10-1995
		DK	431787 A	23-02-1988
		EP	0257996 A2	02-03-1988
		ES	2074979 T3	01-10-1995
		FI	870752 A ,B,	24-08-1988
		JP	63157938 A	30-06-1988
		NO	873537 A ,B,	23-02-1988